THE MARBLE FILL PRESS

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MARBLE HILL - - MISSOURI

A laugh is the only crop that fools can raise successfully.

The Standard Oil trust will not make ice or anything else but money.

Out in Missouri there is a 24-year-old woman who is the mother of twelve

Enthusiasm is well enough for a picnic, but it takes endurance to saw wood successfully.

It is extremely easy for a woman to discover that she is abused by an incompatible husband.

One of the chief delights of feminine nature is to do something that will startle some particular man.

Many a man has an easy job simply because his employers are aware that he is not reliable in emergencies.

If Bourke Cockran marries the daughter of an English lord our foreign account will be partially evened up.

A bloomer girl in Groton, N. Y., last week saved her escort from drowning and the poor fellow is still in his mis-

China has sent an imperial commercial ambassador to this country. This sounds like a high-tone name for a drummer.

The amount a man can perform ought often to be judged by cutting in two what he can plan.

A St. Paul girl has inherited \$3,000,-000, and Minneapolis is looking to one of its young men to see that it doesn't get any the worst of the deal.

William K. Vanderbilt refused to obey a summons to serve as a jurer. It is thought, however, that Mr. Vanderbilt would condescend to act as a jury.

A Chicago girl at present sojourning near Philadelphia can say nothing but "nit." That, however, is the most a Chicago girl needs to say in that re-

A young man was arrested in Chicago the other day for throwing away money. If every man guilty of this offense were treated likewise the vote would be very slim this year.

The fact that a girl who is blind, deaf and without sense, of taste or smell has passed the Harvard ination with credit may be taken as an indication that higher education is

The war department has put in dovecotes and it may not be a great while before there will be a demand for the government to maintain a stock of rabbits with well-developed left hind

The wind was blowing seventy-five miles an hour at New York one day last week. Gotham is evidently better at raising the wind than it used to be in the days when monument funds were on the tapis.

"Fresh eggs from China," is a sign which is being displayed in some of the Chinese stores of Chicago. The celestials have evidently got a thoroughly Americanized conception of the term "fresh eggs."

It is now reported that Actor Aubrey Boucleault will quit the stage, having successfully married his million-dollar bride. This is more satisfactory to her friends than the original statement that he would remain on the stage and she would join him in artistic avocations. She will also be likely to hold on to her million somewhat longer this way.

A double golden wedding is certainly an unusual event. William R. Highee of Bridgeport, Conn., and George R. Cornwall of Port Chester, N. Y., wers old school friends and married on the same day, Sept. 22, 1846. Yesterday Mr. and Mrs. Cornwall went over to Bridgeport and celebrated a joint goldon wedding with Mr. and Mrs. Highee, All four are in excellent health and the two "young couples" enjoyed the festivities greatly.

An amusing coincidence has occurred in Passaic, N. J. Two brothers, Alfred and Radcliffe Wells, have been secretly woolng two maidens of that locality, and fearing opposition in each case, neither said a word to the other of their intentions, but both determined upon a runaway match and a secret wedding. Each carried out their intention on the same night, and meeting the same day each was moved to an avowal of what they had done, and their mutual astonisment can be betfor imagined than described.



government has nearly finished at Balthe navy experts promise, she will be in large measure a real fulfilment of the dreams of Jules Verne in his masterpiece of fiction-"Twenty Thousand Leagues Under the Sea."

This is the only new war vessel ever built by our government upon which the longing eyes of ambitious naval officers were not turned. It is the first time the navy department has not been pestered by requests for assignments to duty on a new ship. And the reason is that the new boat is looked upon as a very promising submarine coffin for the first crew that ventures

Much of the warfare of the next century must be conducted by submarine fighting machines, and this extraordinary craft will, it is believed, solve the

amount of study. This experiment, if

The new boat is the object of rapt at-

years to look to America for instruc-

tion in the science of naval building.

There is much spaculation and uncer-

tainty, however, even among our own

naval authorities as to whether the new

craft will, upon practical trial, do all

that her inventor, J. P. Holland, claims

for her. Experiments with submarine

war vessels heretofore have been so

anything hitherto taught in naval in-

stitutions, that the question of man-

ning her is causing the navy depart-

The Wonder of the World.

The craft is a wonder. It is nothing

more nor less than a huge steel fish,

with lungs capable of holding enorm-

ous quantities of fresh air, and possess-

ment a world of trouble.

of the world powerless,

successful, may render the great navies | ing horizontal rudders so as to cause

disastrous, and the manipulation of Food must be brought along in cooked

this strange craft is so different from and compact shape, to be consumed in

If the marvelous little submarine places 138 tons. Under ordinary cir- tric switchboard at his side, which torpedo boat which the United States cumstances it runs on the surface like transmits an order to the engine room. an ordinary torpedo boat, with a speed Without half a minute's delay the boat timore does all the astonishing things of sixteen knots an hour. At will it sinks until her superstructure is just can be lowered just enough to be under awash, so that only turret and chimney water, save for a turret of Harveyized remain above the surface. The pilot it is able to survey the ocean's surnickel-steel, which is surmounted by a is stil able to continue his inspection chimney. The armour of the turret of the warship through the window is eight inches thick, and proof against aforesaid. If the vessel comes near, not need to rise above the waves in rapid fire guns. The chimner contains and he thinks he is in danger from a tube by means of which the air inside the big rifled guns, he touches another of the boat is kept fresh.

Entirely Safe from Attack.

In this half submerged condition the boat is comparatively safe from any sort of attack. It offers so small a target that to hit it would be extremeentirely out of sight at a moment's no-

The chimney and air tube are withdrawn into the interior in a dozen seconds, the opening is hermetically closed which inventors and naval experts taking water into compartments in- is done by compass when under water.

have for years given such an incredible | tended for that purpose, thus changing | The interior of the submarine vessel is

the nose of the steel fish to turn down-

ward. The depth attained is regulated

tention from the naval nations of the automatically, the limit of safety being steam engines, which, small but power-

world, who have learned in these later about 66 feet. At a much lower level ful, actuate twin screws at the stern.

the pressure of water would crush the

This submarine marvel has a double

steel shell, and the space between the

space for officers or crew to sleep or eat.

such fashion as may be. Life on this

ship, if ship she is, will not be a thing

of joy. Much of the interior space is

taken up by electric batteries and ac-

cumulators. Electric apparatus re-

quires a good deal of room, but it

makes no smoke and needs neither fue!

nor air. There are also steam engines

run by petroleum, and tubular boilers

its specific gravity, and also by inclin- lighted by electricity, with incandes-

ly filled with machinery. There is no motors, which will run the boat for six-

cent lamps.

teen hours.

So long as the boat travels on the

surface it is run by its triple expansion

When the craft has been wholly sub-

there is enough steam at high pressure

Makes Its Own Electricity.

The vessel makes its own electricity

stores it in its accumulators. This

point gives to the Holland boat an im-

mense advantage over most of the for-

eign submarine vessels, which depend

wholly on electricity for motive power,

and are obliged to go to the shore at

short intervals for the purpose of re-

filling their storage batteries.

button on the switchboard, and in one craft is safe from all danger or pursuit, eighteen feet below the waves.

The instant the order is given a bit of mechanism is set in operation by which the chimney and air tube are into the empty compartments, and the horizontal rudders are inclined for diving. An indicator registers the depth, which is so regulated by an automatic device that the craft cannot descend

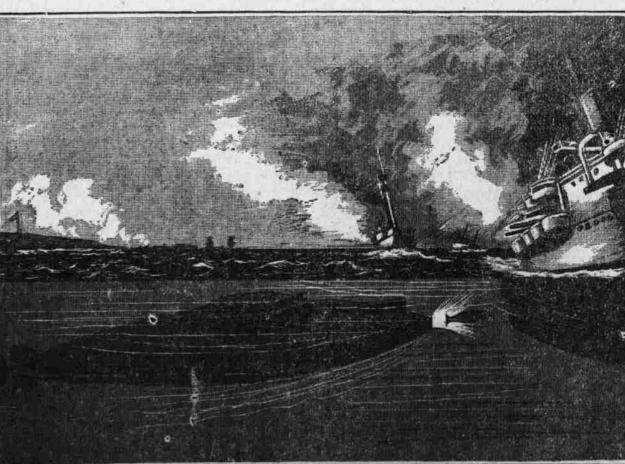
ly difficult. At any time it can sink telescopically withdrawn. Water flows a white cloth. The device is an applithe ocean for miles around. Every sail, every ripple, is as clear to his eye whole problem of under water war, to and the craft dives. It descends by below the safety limit. The steering as if he were on the deck of a ship in the open air above.

Can Destroy Strongest Battleships.

strike the strongest battleship, and the proud vessel of steel and iron, a floating mass of machinery that has cost \$4,000,000 to construct, is transformed in a moment into an iron coffin, carrying officers and crew to the bottom. Having delivered the fatal blow, the submarine boat glides away, to come up presently near the surface, and with the aid of her camera lucida to look around upon the scene of the destruction she has caused-herself at the same time invisible and safe from nursuit. Such a craft as the Holland boat would never try to attach a tor-

The Holland boat is able to keep at sea in bad weather. Its radius of action, traveling on the curface, is 1,000 miles; submerged, it can go sixty miles. Its speed under water is eight by means of its steam engines and knots and it can be perfectly controlled. Special devices provide against every conceivable accident. In case it is desired to check the downward movement of the boat quickly, a touch on a button connects a compartment of water at the bow with a tank of compressed air. The expanding air drives the water out of the compartment, thus lightening the boat. If the submarine vessel gets stuck in the mud at the bottom, or for some other reason is not able to rise, officers and crew will put on diving suits and escape through a hatchway.

The boat is to cost \$150,000. If it proves a succees, two others are to be built. This one, Mr. Holland says, is not as big as it ought to be, but its size was limited by the appropriation. As coon as it is finished, it will be taken for a trial trip down the Chesapeake.



THE NEW TORPEDO BOAT.

surface of the ocean on all sides while the vessel itself is submerged and in-

It has fins for diving and steering, and its vitality is furnished by steam

The boat is practically the Nautilus of Jules Verne reduced from dream to sees a hostile warship coming. The reality. It is eigar shaped, pointed at warship is of such vastly great-r size oth ends; 80 feet long, 11 feet in di-meter, and with a displacement of 118

ing a single great eye for surveying the | consisting of a labyrinth of pipes. The steam engines generate the electricity that is stored in the accumulators.

Traveling on the Water's Surface. Suppose that the boat is traveling on the surface of the water, at a sixteen knot gait, when the pilot, looking out through a glass window in the turret. that he spice it long before the entmy's

When the boat dives valves are means the atmosphere inside of the at once demonstrated that extraordisubmarine vessel is kept good for half nary ability as a teacher and that gift a dozen hours. In case 2 gets close of inspiring enthusiasm in his mib and bad, the foul air may be pumped which were such marked characout. It is not necessary for the craft ties of his later years. In 1848 he made to come to the surface even when the his first visit to America, and two air stored in her reservoirs has been years later accepted that profes exhausted. In such a case a two-inch at Harvard which determined to hossploe is an wound from the reel, its of his remaining life.

free end being attached to a float, which, when released, rises to the surface of the water, carrying with it the hose. Through this fresh air is pumped into the vessel, and the storage tanks are refilled under pressure. Thus. it will be seen that the boat is able to stay under water almost indefinitely. not being obliged to come to the surface to take breath. Three days' provisions are carried for the persons en board, four officers and eight machin-

Its Organ of Vision. The most wonderful thing about this bcat, however, is the organ of vision for seeing while submerged. It has a single huge eye, by means of which face, though itself sunk some fathoms deep, and invisible. The vessel does order that the pilot may perceive where he is at." It comes up merely to within a few feet of the surface, and minute by the watch the submarine a long tube is elevated vertically out of the water. The tube contains a single arrangement of lenses and mirrors. The lower end of it descends into the steering room of the boat, where there is a pivoted circular table covered with cation of the familiar camera lucida. By moving the pivot table this way and that the pilot can scan the surface of

> In her bow the boat has two torpedo tubes for the discharge of automatic torpedoes of the Whitehead or Howell variety. She carries five of these torpedoes, which are projected by compressed air. Such a torpedo is a hollow, cigar shaped receptacle, much like a fish, carrying in its front end 200 pounds of gun cotton. After being discharged from the tube it runs itself, being driven by a screw, with compressed air for motive power. It may be shot with accuracy at a mark 200 yards away, and it will run 1,000 yards or more, exploding on impact.

Let one of these fearful projectiles

merged these engines are stopped, but pedo to the bottom of a ship. She picks out a vessel for attack and makes for left in the bollers to propel the vessel her, occasionally coming near the surtwo coats is occupied by water ballast, for a considerable time longer. When coal bunkers and compressed air tanks. it is on the point of exhaustion the proface just long enough to permit her The interior of the craft is almost whol- pellers are connected with the electric commander to make sure of his course.

Louis Agassiz.

The early years of Agassiz read like a fairy tale of incredible achievement. His bent toward natural science showed itself almost in infancy and grew with his growth. At fourteen we find him sighing for a list of unattainable books-D'Anville, Ritter, and Italian dictionary, a Strabo in Greek, Manaert and Thiersch; and also the works of Malte-Brun and Seyfert. Failing to get these he copied whole volumes with the assistance of his brother, among others Lamarck's Animaux sans Vertebres. His parents, who had destined him to a commercial career, were with difficulty induced to consent to his studying medicine, At twenty-three he was not only a doctor of medicine, but of philosophy as well, and the author of a work on Brazilian fishes, which won for him a name among the scientists of Europe and the opened from the tanks, which contain personal intimacy of Cuvier and Humair condensed under a pressure of 2,000 boldt. At twenty-five he begat his pounds to the square inch. By this career as a lecturer and instructor, and